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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/787,196	04/26/2001	Ichiro Hirao	55729	6079
21874 7:	590 10/03/2003		EXAMI	NER
EDWARDS & ANGELL, LLP			HENRY, MICHAEL C	
P.O. BOX 9169 BOSTON, MA 02209			ART UNIT	PAPER NUMBER
B031014, M7	V 02209		1623	12
			DATE MAILED: 10/03/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
Office Action Summary	09/787,196	HIRAO ET AL.			
Office Action Gammary	Examiner	Art Unit			
The MAILING DATE of this communication ann	Michael C. Henry	1623			
The MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1) Responsive to communication(s) filed on	·				
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ Thi	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>					
4)⊠ Claim(s) <u>1-40</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) $\underline{1-40}$ are subject to restriction and/or e	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
<ul> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inf	ormary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)			

Application/Control Number: 09/787,196

Art Unit: 1623

## DETAILED ACTION

Applicant's amendment filed on 4/20/01 has been received and carefully considered, however, the following Office Action is drawn to a Restriction Requirement.

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-12, drawn to a method of constructing selective base pair.

Group II, claim(s) 13-17, drawn to a method of designing nucleic acid to construct selective base pair.

Group III, claim(s) 18-24, 27-32, drawn to a nucleic acid.

Group IV, claim(s) 25-26, 33-38, drawn to a process for the production of a nucleic acid.

Group V, claim(s) 39, drawn to a microorganism which is transformed by a non-natural gene

Group VI, claim(s) 40, drawn to a method of screening functions of amino acids.

2. The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the technical feature linking the groups appears to be that they all relate to the production of nucleic acid base pair.

Application/Control Number: 09/787,196

Art Unit: 1623

- 3. The technical feature linking groups I-VI appears to be that they all relate to the the production of nucleic acid base pair.
- 4. However, Brenner. (US 5,432,272)(see abstract)) describes the production of nucleic acid base pair. The prior art base pairs are therefore made and use for the incorporation into nucleic acids as those instantly claimed.
- 5. Therefore, the special technical feature linking the inventions of groups I-VII does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

The special technical feature of Group I is considered to be a method of constructing selective base pair.

The special technical feature of Group II is considered to be a method of designing nucleic acid to construct selective base pair.

The special technical feature of Group III is considered to be a nucleic acid being designed by a method of designing nucleic acid to construct selective base pair.

The special technical feature of Group IV is considered to be a process for the production of a nucleic acid being designed by a method of designing nucleic acid to construct selective base pair.

The special technical feature of Group V is considered to be a microorganism which is transformed by a non-natural gene involving the use of a nucleic acid being designed by a method of designing nucleic acid to construct selective base pair.

The special technical feature of Group VI is considered to be a method of screening functions of amino acids coded by gene which is used in the production of a nucleic acid being designed by a method of designing nucleic acid to construct selective base pair.

Applicant is not entitled to the search of multiple products, but one product, composition, and method will be examined in the instant application.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Application/Control Number: 09/787,196

Art Unit: 1623

Page 4

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Henry whose telephone number is 703 308-7307. The examiner can normally be reached on 8:30 am to 5:00 pm; Mon-Fri. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 703 308-4624. The fax phone number for the organization where this application or proceeding is assigned is 703 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-1235.

**MCH** 

September 30, 2003

JAMES O. WILSON

SUPERVISORY PATENT EXAMINER
/ RECHNOLOGY CENTER 1600